

Crystal Unit

AEC-Q200

YSX531SC



Applications

- Automotive
- Industrial

Features

- Dimensions: 5.00 x 3.20 x 0.85mm
- Standard Frequency: 7.6 ~ 54MHz

- AEC-Q200 Qualified



Specifications (规格参数)

Item	Symbol	Specifications
Nominal Frequency Range 额定频率范围	f _{nom}	7.6 ~ 54MHz
Vibration Mode 震动模式	-	AT Fundamental
Load Capacitance 负载电容	CL	18pF, 20pF, or specify
Frequency Tolerance 频率偏差(at 25°C)	f _{tol}	±10ppm, ±20ppm, or specify
Frequency Versus Temperature Characteristics 频率-温度特性	f _{tem}	±50ppm, or specify
Operating Temperature 工作温度	T _{use}	-40~+125°C, or specify
Storage Temperature 储存温度	T _{stg}	-55~+125°C
Shunt Capacitance 静态电容	C0	5pF Max
Level of Drive 激励电平	DL	1~300μW Max(100μW typical)
Aging 老化(at 25°C)	f _{age}	±2ppm/year Max

Equivalent Series Resistance (等效串联电阻(ESR))

YSX531SC			
7.6 ~ 11.9MHz	100Ω Max	14 ~ 19.9MHz	50Ω Max
12 ~ 13.9MHz	60Ω Max	20 ~ 54MHz	40Ω Max

Dimensions and Recommended Land Pattern (外观尺寸及推荐焊盘)

Dimensions (Unit: mm)	Recommended Land Pattern (Unit: mm)
Top View: 5.0±0.15, 3.2±0.15, Marking, #1, #2, #3, #4 Side View: 0.85±0.20, 2.5±0.1 Bottom View: 1.4, #1, #2, #3, #4	Top View Crystal Connection: #1, #2, #3, #4, GND Top View Suggested Layout: 2.0, 1.7, 2.0, 1.2, 1.0, 1.2